

Storm Data and Unusual Weather Phenomena - January 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
(IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	01/01/13 00:00 CST		0	Drought
	01/12/13 06:00 CST		0	
The drought which began in May of 2012 officially ended across the remainder of southern Illinois. Water supplies returned to normal.				
GALLATIN COUNTY --- 2.0 S JUNCTION [37.69, -88.23]				
	01/12/13 14:30 CST		0	Heavy Rain
	01/12/13 17:30 CST		0	Source: Trained Spotter
Some small streams were out of their banks, and a few rural roads were under water in spots. A trained spotter measured 1.4 inches of rain in three hours. The 24-hour rainfall total was 4.90 inches.				
MASSAC COUNTY --- 3.8 NE UNIONVILLE [37.16, -88.50]				
	01/12/13 14:30 CST		15K	Thunderstorm Wind (EG 56 kt)
	01/12/13 14:30 CST		0	Source: Public
At Hohman Lake, trees and power lines were blown down. A johnboat sank.				
A supercell thunderstorm developed along a quasi-stationary front that extended from southwest to northeast along the Lower Ohio River Valley. Deep and strong southwesterly wind flow stretched from Texas to the Great Lakes region ahead of an expansive upper-level trough over the western and central states. Several weak disturbances tracked northeastward, contributing to the development of the isolated supercell. The supercell produced heavy rainfall and an isolated wind damage event.				
WAYNE COUNTY --- FAIRFIELD MUNI ARPT [38.38, -88.42]				
	01/12/13 20:00 CST		0	Heavy Rain
	01/12/13 21:00 CST		0	Source: Trained Spotter
Water was reported to be running over County Road 900 North.				
PERRY COUNTY --- CUTLER [38.03, -89.57]				
	01/12/13 20:45 CST		0	Heavy Rain
	01/12/13 22:00 CST		0	Source: Trained Spotter
Water was reported over roads in town and just west of town.				
SALINE COUNTY --- 1.2 SW PANKEYVILLE [37.69, -88.55], 0.8 SSW PANKEYVILLE [37.69, -88.53]				
	01/12/13 21:36 CST		10K	Thunderstorm Wind (EG 56 kt)
	01/12/13 21:36 CST		0	Source: Unknown
Part of a barn roof was ripped off, a tree and light pole were blown down, and some light objects including a trampoline were blown around. Power lines were down on Highway 145.				
JEFFERSON COUNTY --- 1.9 S WOODLAWN [38.30, -89.03], 1.7 S DRIVERS [38.31, -89.00], 1.1 SSW DRIVERS [38.32, -89.01], 1.4 S WOODLAWN [38.31, -89.03]				
	01/12/13 21:45 CST		0	Flash Flood (due to Heavy Rain)
	01/13/13 03:00 CST		0	Source: Trained Spotter
Water was over the roadway on Illinois Highway 15.				
WABASH COUNTY --- MT CARMEL [38.42, -87.77]				
	01/12/13 22:15 CST		20K	Thunderstorm Wind (EG 61 kt)
	01/12/13 22:15 CST		0	Source: Emergency Manager
Numerous power lines were blown down in the city, along with many trees. Some metal debris was wrapped around a telephone pole.				
FRANKLIN COUNTY --- 0.4 WSW BUCKNER [37.98, -89.03], 0.4 NW BUCKNER [37.98, -89.03], 0.8 NNE CHRISTOPHER [37.98, -89.05], 0.5 NW URBAIN [37.97, -89.04]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/12/13 23:02 CST		0	Flash Flood (due to Heavy Rain)
	01/13/13 03:00 CST		0	Source: Trained Spotter

Andy's Creek was over a section of roadway on Illinois Route 14.

SALINE COUNTY --- 0.9 NW PANKEYVILLE [37.71, -88.54], 0.8 NNE PANKEYVILLE [37.71, -88.53], 0.3 SSE PANKEYVILLE [37.70, -88.53], 0.6 WSW PANKEYVILLE [37.70, -88.54]

01/12/13 23:30 CST	0	Flash Flood (due to Heavy Rain)
01/13/13 00:45 CST	0	Source: Trained Spotter

State Route 145 was flooded south of Harrisburg. Police detoured traffic.

PERRY COUNTY --- CUTLER [38.03, -89.57], 0.7 ESE CUTLER [38.03, -89.56], 1.0 NE CUTLER [38.04, -89.56], 0.8 N CUTLER [38.04, -89.57]

01/12/13 23:50 CST	10K	Flash Flood (due to Heavy Rain)
01/13/13 03:00 CST	0	Source: Trained Spotter

A mobile home was evacuated, and a couple of streets were closed.

WAYNE COUNTY --- BARNHILL [38.28, -88.37], JOHNSONVILLE [38.52, -88.53], MT ERIE [38.52, -88.23], ELLERY [38.35, -88.15]

01/12/13 23:50 CST	20K	Flash Flood (due to Heavy Rain)
01/13/13 04:00 CST	0	Source: Law Enforcement

Numerous roads were flooded, a few of which were impassable. At least a couple of vehicles were stranded in floodwater.

PULASKI COUNTY --- PERKS [37.30, -89.08], 1.2 WSW PERKS [37.29, -89.10], 1.4 SW PERKS [37.29, -89.10], 1.5 N GRAND CHAIN [37.29, -89.02]

01/13/13 00:00 CST	0	Flood (due to Heavy Rain)
01/13/13 08:00 CST	0	Source: Emergency Manager

Minor flooding of the Cache River occurred. A few roads near the river were flooded.

WAYNE COUNTY --- WAYNE CITY [38.35, -88.58], 0.7 ENE WAYNE CITY [38.35, -88.57], 1.3 ESE WAYNE CITY [38.34, -88.56], 0.8 SE WAYNE CITY [38.34, -88.57]

01/13/13 05:00 CST	0	Flood (due to Heavy Rain)
01/16/13 05:00 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Skillet Fork River near Wayne City. Some low-lying fields and woodlands near the river were underwater.

A narrow line of thunderstorms moved quickly northeast across southeast Illinois. The storms were located in a region of strong warm advection near a low level jet in excess of 50 knots. Marginal instability developed as a surface warm front lifted northward. Isolated wind damage events occurred in association with this line of storms. More widespread showers and storms over a large area produced heavy rain and isolated flooding.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z088) UNION, (IL-Z089) JOHNSON

01/13/13 11:00 CST	0	Winter Weather
01/13/13 15:00 CST	0	

Sleet and freezing rain caused some hazardous travel conditions. North of a line from Anna to Vienna and Harrisburg, less than one-quarter inch of icing occurred, mainly on elevated objects. Some slick spots developed on roads, especially bridges and overpasses. A fatal accident occurred on Interstate 57 at mile post 51 in Williamson County. The single-vehicle accident occurred on the northbound side of the highway. The vehicle spun out of control, skidded sideways off the roadway, and struck a tree on the passenger side. The passenger was killed (indirect fatality). Some slick roads were reported in Franklin County around Thompsonville, where one-eighth inch of icing was reported. Minor accumulations of sleet were reported in Mount Carmel. The sleet and freezing rain occurred in the wake of a strong cold front that stretched from Ohio to the central Gulf Coast. Rain changed to mixed precipitation after the passage of the front.

GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 0.3 SE SHAWNEETOWN [37.70, -88.13], 1.8 SSW SHAWNEETOWN [37.68, -88.15], 1.7 SW SHAWNEETOWN [37.68, -88.15]

01/17/13 09:00 CST	0	Flood (due to Heavy Rain)
01/26/13 18:00 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River near Shawneetown. Some low-lying fields and woodlands near the river were underwater.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
JACKSON COUNTY --- 2.8 WSW MURPHYSBORO [37.76, -89.38], 1.5 W MT CARBON [37.75, -89.36], 1.4 WNW MT CARBON [37.76, -89.35], 2.2 WSW MURPHYSBORO [37.76, -89.37]				
	01/17/13 09:00 CST		0	Flood (due to Heavy Rain)
	01/19/13 16:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Big Muddy River near Murphysboro. Some low-lying parks and woodlands near the river were underwater.				
PULASKI COUNTY --- NEW GRAND CHAIN [37.25, -89.02], 3.3 SSE NEW GRAND CHAIN [37.20, -89.01], 1.4 ENE OLMSTED [37.19, -89.06], 1.4 ESE LEVINGS [37.21, -89.05]				
	01/17/13 09:00 CST		0	Flood (due to Heavy Rain)
	01/26/13 18:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Ohio River near Grand Chain. Some low-lying parks and woodlands near the river were underwater.				
WABASH COUNTY --- 1.5 ESE MT CARMEL [38.42, -87.74], 1.8 ENE MT CARMEL [38.43, -87.74], 1.6 NE MT CARMEL [38.43, -87.75], 1.1 E MT CARMEL [38.42, -87.75]				
	01/17/13 09:00 CST		0	Flood (due to Heavy Rain)
	01/25/13 06:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Wabash River near Mt. Carmel. Some low-lying parks and woodlands near the river were underwater.				
WHITE COUNTY --- CARMI [38.08, -88.17], 1.7 ESE CARMI [38.07, -88.14], 2.4 S CARMI [38.05, -88.18], 2.0 SW CARMI [38.06, -88.19]				
	01/17/13 17:00 CST		0	Flood (due to Heavy Rain)
	01/26/13 14:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Little Wabash River near Carmi. Some low-lying parks and woodlands near the river were underwater.				
MASSAC COUNTY --- BROOKPORT [37.12, -88.63], 1.8 WNW BROOKPORT [37.13, -88.66], 1.6 W BROOKPORT [37.12, -88.66], 0.4 WSW BROOKPORT [37.12, -88.64]				
	01/20/13 09:00 CST		0	Flood (due to Heavy Rain)
	01/26/13 18:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Ohio River near Brookport. Some low-lying parks and woodlands near the river were underwater.				
ALEXANDER COUNTY --- 1.0 ENE CAIRO [37.01, -89.16], 2.5 ESE CAIRO [36.99, -89.14], 1.6 ESE CAIRO [36.99, -89.16], 1.1 ESE CAIRO [36.99, -89.16]				
	01/22/13 09:00 CST		0	Flood (due to Heavy Rain)
	01/25/13 18:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Ohio River near Cairo. Some low-lying parks and woodlands near the river were underwater.				
Minor flooding occurred along several rivers in southern Illinois. The rivers rose above flood stage in response to the heavy rain event on the 12th and 13th, followed by some lighter wintry precipitation events during the middle of the month.				
(IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z083) WHITE, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	01/25/13 02:00 CST		0	Winter Weather
	01/25/13 08:00 CST		0	
Patchy freezing rain created locally hazardous travel conditions. In the Mount Carmel area, some cars slid off roads into ditches. Schools were closed in Pope County. The patchy freezing rain occurred north of a warm front as it moved north across Tennessee.				
(IL-Z082) HAMILTON, (IL-Z084) JACKSON				
	01/29/13 19:00 CST		2K	Strong Wind (MAX 46 kt)
	01/29/13 22:30 CST		0	
PERRY COUNTY --- 1.6 SW LAYFIELD [38.08, -89.49]				
	01/29/13 20:54 CST		20K	Thunderstorm Wind (EG 61 kt)
	01/29/13 20:54 CST		0	Source: Trained Spotter
Power poles were blown across Highway 154 several miles west of Pinckneyville.				

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PERRY COUNTY --- 2.0 SW DU QUOIN [38.00, -89.25], OLD DUQUOIN [37.97, -89.18]				
	01/29/13 21:15 CST		50K	Thunderstorm Wind (EG 65 kt)
	01/29/13 21:25 CST		0	Source: Trained Spotter
On the southwest side of DuQuoin, an attached garage was destroyed. The garage door was blown completely in, and the back wall of the garage was knocked out. Trees were blown down around the damaged house. South of DuQuoin along Route 14, a barn was destroyed. Trained spotters reported leaning power poles and tree damage in Old DuQuoin.				
JACKSON COUNTY --- MURPHYSBORO [37.77, -89.33]				
	01/29/13 21:20 CST		40K	Thunderstorm Wind (EG 65 kt)
	01/29/13 21:20 CST		0	Source: Public
A trailer was thrown into another trailer. One of the trailers was destroyed. A double wide mobile home sustained major damage.				
JEFFERSON COUNTY --- WOODLAWN [38.33, -89.03]				
	01/29/13 21:23 CST		6K	Thunderstorm Wind (EG 52 kt)
	01/29/13 21:23 CST		0	Source: Public
A carport and awning received moderate damage.				
JACKSON COUNTY --- (MDH)CRBN DL/MRFYSBRO [37.78, -89.25]				
	01/29/13 21:25 CST		0	Thunderstorm Wind (MG 55 kt)
	01/29/13 21:25 CST		0	Source: ASOS
A wind gust to 63 mph was measured by the automated observing system at the Carbondale/Southern Illinois Airport.				
JACKSON COUNTY --- 1.8 E DE SOTO [37.82, -89.20]				
	01/29/13 21:33 CST		5K	Thunderstorm Wind (EG 52 kt)
	01/29/13 21:33 CST		0	Source: Public
Trees were blown down near the community of Desoto.				
JEFFERSON COUNTY --- (MVN)MT VERNON ARPT [38.32, -88.87]				
	01/29/13 21:35 CST		0	Thunderstorm Wind (MG 51 kt)
	01/29/13 21:35 CST		0	Source: AWOS
A wind gust to 59 mph was measured by the automated observing system at the Mount Vernon Airport.				
FRANKLIN COUNTY --- 0.5 E MULKEYTOWN [37.97, -89.11], 1.0 ENE MULKEYTOWN [37.98, -89.10]				
	01/29/13 21:38 CST		0	Tornado (EF0, L: 0.58 mi , W: 75 yd)
	01/29/13 21:39 CST		0	Source: Trained Spotter
Two spotters eyewitnessed a brief tornado touchdown along Highway 14 near Old Du Quoin, about 1/4 mile east of the Franklin/Perry county line. Winds were estimated at 85 mph. No damage was reported with the tornado, partly because this stretch of road was devoid of trees and power lines.				
FRANKLIN COUNTY --- CHRISTOPHER [37.97, -89.05]				
	01/29/13 21:40 CST		50K	Thunderstorm Wind (EG 74 kt)
	01/29/13 21:41 CST		0	Source: Trained Spotter
A pole barn was heavily damaged at the intersection of Route 14 and Old Route 14. A day care center lost part of a wall. A few outbuildings were damaged.				
WILLIAMSON COUNTY --- 2.0 NW HERRIN [37.82, -89.06]				
	01/29/13 21:43 CST		10K	Thunderstorm Wind (EG 52 kt)
	01/29/13 21:43 CST		0	Source: Trained Spotter
Radio antennas were damaged.				
FRANKLIN COUNTY --- 1.3 S REND CITY [38.01, -88.98]				
	01/29/13 21:45 CST		40K	Thunderstorm Wind (EG 65 kt)
	01/29/13 21:45 CST		0	Source: Emergency Manager

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About a mile north of Route 14 between Benton and Rend Lake Dam, a camper was overturned. A home received shingle damage. A mobile office trailer was thrown on its side. Several trees were blown down.				
ALEXANDER COUNTY --- TAMMS [37.23, -89.27]				
	01/29/13 21:50 CST		0	Thunderstorm Wind (EG 61 kt)
	01/29/13 21:50 CST		0	Source: Trained Spotter
A trained spotter estimated a wind gust to 70 mph.				
FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92]				
	01/29/13 21:51 CST		0	Thunderstorm Wind (MG 61 kt)
	01/29/13 21:51 CST		0	Source: Trained Spotter
A wind gust to 70 mph was measured by a trained spotter.				
WILLIAMSON COUNTY --- HERRIN [37.80, -89.03], JOHNSTON CITY [37.82, -88.93]				
	01/29/13 21:55 CST		8K	Thunderstorm Wind (EG 61 kt)
	01/29/13 22:05 CST		0	Source: Trained Spotter
Numerous tree limbs were down in Herrin, where a trained spotter estimated the wind gusted to 70 mph. In Johnston City, a trained spotter estimated a wind gust to 70 mph.				
WAYNE COUNTY --- 1.0 S WAYNE CITY [38.34, -88.58]				
	01/29/13 22:00 CST		8K	Thunderstorm Wind (EG 61 kt)
	01/29/13 22:00 CST		0	Source: Trained Spotter
Several large trees were uprooted. Two 20-inch diameter trees were snapped off about three feet above the ground.				
WILLIAMSON COUNTY --- 2.1 W PULLEYS MILL [37.60, -88.94], 1.5 NNE PULLEYS MILL [37.62, -88.89]				
	01/29/13 22:00 CST		50K	Thunderstorm Wind (EG 65 kt)
	01/29/13 22:10 CST		0	Source: Emergency Manager
About one-third of the roof decking was blown off a mobile home. Almost the entire roof was ripped off another home. A 20-foot metal pole was snapped in half and blown into a neighbor's yard. Windows were blown out of a nearby home. Some trees were snapped. Debris was wrapped around a few trees. The damage was reported in and around the Lake of Egypt.				
UNION COUNTY --- 5.5 E DONGOLA [37.36, -89.07]				
	01/29/13 22:05 CST		15K	Thunderstorm Wind (EG 52 kt)
	01/29/13 22:05 CST		0	Source: Public
A large poplar tree was blown down on a car.				
SALINE COUNTY --- 0.9 N GALATIA [37.84, -88.62], 1.6 NE GALATIA [37.85, -88.60]				
	01/29/13 22:16 CST		0.20M	Tornado (EF2, L: 0.97 mi , W: 125 yd)
	01/29/13 22:18 CST	2	0	Source: NWS Storm Survey
One home was destroyed. The home was unroofed, and three out of four exterior walls collapsed. Several homes sustained roof damage, including roof decking. Windows were blown out of at least one house. A poorly constructed garage and an awning were destroyed. A machine shed was levelled, and the doors were blown out of another one. One home lost a brick chimney. A hay bale feeder was thrown 250 yards. Huge trees up to 14 feet in circumference were uprooted and snapped. There was an eyewitness to the funnel cloud. One person was critically injured by a large tree which fell on his mobile home, trapping him inside. Another person received minor injuries. The average path width was 100 yards. Peak winds were estimated near 115 mph.				
EDWARDS COUNTY --- 2.0 SW ALBION [38.36, -88.08]				
	01/29/13 22:42 CST		5K	Thunderstorm Wind (EG 61 kt)
	01/29/13 22:42 CST		0	Source: Unknown
Windows were blown out of a house.				
WHITE COUNTY --- CROSSVILLE [38.17, -88.07]				
	01/29/13 22:51 CST		0	Thunderstorm Wind (EG 61 kt)
	01/29/13 22:51 CST		0	Source: Trained Spotter

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A trained spotter estimated the wind gusted to 70 mph.				
WABASH COUNTY --- KEENSBURG [38.35, -87.87]				
	01/29/13 23:00 CST		0	Thunderstorm Wind (EG 52 kt)
	01/29/13 23:00 CST		0	Source: Trained Spotter

A trained spotter estimated the wind gusted to 60 mph.

MASSAC COUNTY --- METROPOLIS [37.15, -88.73]				
	01/29/13 23:04 CST		70K	Thunderstorm Wind (MG 59 kt)
	01/29/13 23:04 CST		0	Source: Trained Spotter

The rubber roof was lifted from the county courthouse. The roof was partially removed from a second structure. Power lines were blown down. A large awning was blown off, and two plate glass windows were blown out in the downtown area. A trained spotter measured a wind gust to 68 mph.

A line of thunderstorms intensified as it moved east from Missouri. The storms increased as they moved into slightly more unstable air associated with a strengthening low level jet. The storms were aided by the approach of a strong upper level trough. Despite weak instability, winds of 90 knots in the lowest 3 kilometers coupled with extreme shear values resulted in damaging winds and isolated tornadoes with the strongest storms. Ahead of the thunderstorms, strong southerly gradient winds gusted up to 55 mph in spots. A wind gust to 53 mph was measured in Hamilton County ahead of the storms.

INDIANA, Southwest

WARRICK COUNTY --- CHANDLER [38.05, -87.37], 1.6 WNW CHANDLER [38.06, -87.40], 2.3 NNE STEVENSON [38.05, -87.42], 1.1 NE STEVENSON [38.03, -87.42]				
	01/12/13 16:00 CST		0	Flood (due to Heavy Rain)
	01/13/13 01:00 CST		0	Source: Trained Spotter

The 24-hour rainfall total was 3.41 inches. Most of this rain fell on the evening of the 12th. Some low-lying side roads were flooded northwest of Chandler, mainly due to flooding of Pigeon Creek.

VANDERBURGH COUNTY --- 1.8 SE ARMSTRONG [38.10, -87.63], 1.1 S ARMSTRONG [38.10, -87.65], 1.5 S ARMSTRONG [38.10, -87.65], 1.9 SE ARMSTRONG [38.10, -87.63]				
	01/12/13 16:09 CST		0	Flash Flood (due to Heavy Rain)
	01/12/13 17:30 CST		0	Source: Amateur Radio

Water was reported running across Boonville-New Harmony Road, which is a well-travelled state road. The flooding was just east of Highway 65.

VANDERBURGH COUNTY --- 5.1 SSE EVANSVILLE [37.91, -87.53]				
	01/12/13 16:29 CST		0	Funnel Cloud
	01/12/13 16:29 CST		0	Source: Trained Spotter

A rain-wrapped funnel cloud was reported over Ohio River bottomland. The funnel cloud was observed from the intersection of Interstate 164 and U.S. Highway 41.

During the afternoon, a supercell thunderstorm developed along a quasi-stationary front that extended from southwest to northeast along the Lower Ohio River Valley. Deep and strong southwesterly wind flow stretched from Texas to the Great Lakes region ahead of an expansive upper-level trough over the western and central states. Strong low and mid-level wind fields supported the formation of the supercell, which spawned a funnel cloud near the Ohio River. Later on during the night, more storms developed in a region of strong warm advection near a low level jet in excess of 50 knots. Marginal instability developed as a surface warm front lifted northward. This round of storms produced heavy rain and isolated flooding.

GIBSON COUNTY --- 2.0 S PATOKA [38.39, -87.58], 2.4 SSE PATOKA [38.39, -87.56], 1.6 SE PATOKA [38.41, -87.56], 0.8 S PATOKA [38.41, -87.58]				
	01/15/13 05:00 CST		0	Flood (due to Heavy Rain)
	01/24/13 15:00 CST		0	Source: River/Stream Gage

Minor flooding occurred along the Patoka River near Patoka and Princeton. Some low-lying fields and woodlands near the river were underwater.

POSEY COUNTY --- NEW HARMONY [38.13, -87.93], 0.6 WNW NEW HARMONY [38.13, -87.94], 1.0 NNE NEW HARMONY [38.14, -87.92], 0.8 NE NEW HARMONY [38.14, -87.92]				
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	01/15/13 06:00 CST		0	Flood (due to Heavy Rain)
	01/25/13 16:00 CST		0	Source: River/Stream Gage

Minor flooding occurred along the Wabash River near New Harmony. Some low-lying fields and woodlands near the river were underwater.

POSEY COUNTY --- MT VERNON [37.93, -87.90], 1.2 SW MT VERNON [37.92, -87.92], 1.0 SSW MT VERNON [37.92, -87.91], 0.4 SSE MT VERNON [37.92, -87.90]

01/18/13 08:00 CST	0	Flood (due to Heavy Rain)
01/24/13 18:00 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River near Mt. Vernon. Some low-lying fields and woodlands near the river were underwater.

WARRICK COUNTY --- 1.3 SE NEWBURGH [37.94, -87.40], 2.3 ESE NEWBURGH [37.93, -87.38], 2.3 ESE NEWBURGH [37.94, -87.38], 1.4 ESE NEWBURGH [37.94, -87.40]

01/19/13 06:00 CST	0	Flood (due to Heavy Rain)
01/23/13 16:00 CST	0	Source: River/Stream Gage

Minor flooding occurred along the Ohio River near Newburgh. Some low-lying fields and woodlands near the river were underwater.

Minor flooding occurred along a few rivers in southwest Indiana. The rivers rose above flood stage in response to the heavy rain event on the 12th and 13th, followed by some lighter wintry precipitation events during the middle of the month.

(IN-Z088) SPENCER

01/15/13 17:00 CST	0	Winter Weather
01/15/13 22:00 CST	0	

Sleet and freezing rain caused roads to become icy and very slick in Spencer County. Between one-eighth and one-quarter inch of ice accumulated on roads. In Spencer County, portions of Highways 62, 66, and 45 were reported to be slick and hazardous. The winter precipitation was caused by a surface low pressure system centered over Alabama and Georgia.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

01/25/13 02:00 CST	0	Winter Weather
01/25/13 08:00 CST	0	

Patchy freezing rain created locally hazardous travel conditions. A bus carrying members of a women's track team overturned on I-69 in Pike County, Indiana. The crash was said to be caused by ice on the road. Four student athletes were transported to a hospital with minor injuries. Less than one-tenth of an inch of ice accrued on surfaces. The patchy freezing rain occurred north of a warm front as it moved north across Tennessee.

(IN-Z088) SPENCER

01/29/13 19:30 CST	1K	Strong Wind (MAX 45 kt)
01/29/13 23:00 CST	0	

GIBSON COUNTY --- PRINCETON [38.35, -87.57]

01/29/13 23:25 CST	10K	Thunderstorm Wind (EG 52 kt)
01/29/13 23:25 CST	0	Source: Fire Department/Rescue

A tree fell on a carport, and power lines were down.

VANDERBURGH COUNTY --- 1.2 ESE ERSKIN [38.04, -87.51]

01/29/13 23:46 CST	5K	Thunderstorm Wind (EG 52 kt)
01/29/13 23:46 CST	0	Source: Fire Department/Rescue

Power lines were blown down on the east side of the Evansville Regional Airport.

SPENCER COUNTY --- 2.2 W ROCKPORT [37.88, -87.09]

01/30/13 00:45 CST	15K	Thunderstorm Wind (EG 65 kt)
01/30/13 00:45 CST	0	Source: Emergency Manager

A concrete garage was destroyed.

A line of thunderstorms intensified as it moved east from Missouri. The storms increased as they moved into slightly more unstable air associated with a strengthening low level jet. The storms were aided by the approach of a strong upper level trough. Despite weak

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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instability, winds of 90 knots in the lowest 3 kilometers coupled with extreme shear values resulted in isolated damaging winds. Ahead of the thunderstorms, strong southerly gradient winds gusted up to 55 mph in spots, mainly over Spencer County.

KENTUCKY, Southwest

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY

01/01/13 00:00 CST	0	Drought
01/11/13 06:00 CST	0	

The drought which began in May of 2012 officially ended across the remainder of western Kentucky. Water supplies returned to normal.

CALLOWAY COUNTY --- 1.0 SW HARRIS GROVE [36.56, -88.43], 1.1 NW HARRIS GROVE [36.58, -88.43], 1.2 SW LYNN GROVE [36.59, -88.44], 1.4 W HARRIS GROVE [36.57, -88.45]

01/11/13 01:00 CST	20K	Flash Flood (due to Heavy Rain)
01/11/13 09:00 CST	0	Source: Newspaper

A secondary road was closed due to heavy rain that washed away the road surface.

GRAVES COUNTY --- SYMSONIA [36.92, -88.52], 0.2 SSW SYMSONIA [36.92, -88.52], 0.3 SE SYMSONIA [36.92, -88.52], 0.3 NE SYMSONIA [36.92, -88.52]

01/11/13 01:00 CST	10K	Flash Flood (due to Heavy Rain)
01/11/13 09:00 CST	0	Source: Newspaper

A car was stranded in floodwaters.

LYON COUNTY --- 2.1 W KUTTAWA [37.07, -88.16]

01/11/13 01:00 CST	0	Heavy Rain
01/11/13 09:00 CST	0	Source: Newspaper

Water was over a secondary road.

Between 1 and 1.5 inches of rain fell on saturated ground. The heavy rain was associated with a low pressure system over the Plains states. A strong southerly low level wind flow ahead of a cold front provided abundant moisture.

HICKMAN COUNTY --- 2.0 S CLINTON [36.64, -88.98]

01/12/13 13:40 CST	0	Thunderstorm Wind (EG 52 kt)
01/12/13 13:40 CST	10K	Source: Broadcast Media

A grain bin was heavily damaged. The contents of the nearly full grain bin spilled onto surrounding areas, including U.S. Highway 51. The highway was closed.

MCCRACKEN COUNTY --- HEATH [37.08, -88.80], 2.4 WSW REIDLAND [37.00, -88.57], 1.4 ENE WOODLAWN [37.06, -88.55], 2.9 NNE GRAHAMVILLE [37.14, -88.75]

01/12/13 14:00 CST	10K	Flash Flood (due to Heavy Rain)
01/12/13 16:00 CST	0	Source: Trained Spotter

Deep water was flowing across a couple of roads west of Paducah, including State Highway 305. Highway 994 was shut down in Paducah due to flash flooding. A vehicle that was unable to navigate a flooded intersection in Paducah ended up in a flooded ditch. In Paducah, floodwaters from Crooked Creek overtopped a bridge, closing the road. A garage was flooded in an urban area in Paducah. The 24-hour rainfall at the National Weather Service office in Paducah was 4.61 inches. A total of 1.40 inches fell within 40 minutes.

MCCRACKEN COUNTY --- 1.5 S LONE OAK [37.01, -88.67], 1.5 SE PADUCAH [37.06, -88.61]

01/12/13 14:40 CST	50K	Thunderstorm Wind (EG 56 kt)
01/12/13 14:45 CST	0	Source: Trained Spotter

Several large trees up to three feet in diameter were blown down across portions of the south side of Paducah. A tree landed on a day care facility. At least a few homes had some shingles blown off. A couple of miles south of Lone Oak, there was damage at a nursery. Tree limbs were blown down, and a barn and greenhouse were damaged.

LIVINGSTON COUNTY --- 0.2 WSW HAMPTON [37.28, -88.37], 1.6 NE HAMPTON [37.30, -88.35]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/12/13 15:18 CST		0.10M	Tornado (EF2, L: 1.83 mi , W: 200 yd)
	01/12/13 15:20 CST		0	Source: NWS Storm Survey

The tornado began on the southwest side of town and travelled northeast along Highway 838. Peak winds were estimated around 120 mph. The average path width was 175 yards. The sanctuary of a church collapsed. The steeple was blown off a second church, and some shingles were damaged. Several trees were blown down or snapped. A few homes received shingle damage.

UNION COUNTY --- WAVERLY [37.72, -87.82]

01/12/13 16:02 CST	0	Funnel Cloud
01/12/13 16:02 CST	0	Source: Public

LIVINGSTON COUNTY --- BAYOU [37.23, -88.48], SMITHLAND [37.13, -88.40], 2.1 WSW NEWBERN [37.07, -88.36], 1.7 NNE LAKE CITY [37.05, -88.24], 1.8 NNW SALEM [37.29, -88.26], 3.2 ENE JOY [37.37, -88.33]

01/12/13 23:30 CST	10K	Flash Flood (due to Heavy Rain)
01/13/13 02:30 CST	0	Source: Trained Spotter

Heavy rain put numerous Livingston County highways underwater. Livingston County fire departments assisted state highway crews in putting up signs to mark as many flooded areas as possible along highways. At least one motorist had to be rescued after driving into floodwaters in the darkness. U.S. Highway 60 was closed at the 16 and 17 mile markers between Smithland and Burna, where water was reported to be at least 2 feet deep. Water was also over other spots along U.S. 60. Water was over the road on parts of Kentucky Highways 133, 1433, and 723. Water was over a number of county roads and city streets.

HENDERSON COUNTY --- HENDERSON [37.83, -87.58]

01/12/13 23:45 CST	0	Heavy Rain
01/13/13 00:15 CST	0	Source: Broadcast Media

Minor flooding was reported on U.S. Highway 41 through the business strip of Henderson.

MCCRACKEN COUNTY --- 2.4 ESE LONE OAK [37.02, -88.63], PADUCAH [37.08, -88.63]

01/13/13 01:20 CST	5K	Heavy Rain
01/13/13 02:00 CST	0	Source: Trained Spotter

About a foot of water was over Kentucky Highway 994 at Champion Creek, which is a flood-prone location. Floodwaters from Champion Creek entered a garage. A flood-prone railroad underpass on U.S. Highway 45 in Paducah was closed. Water was over a few other streets.

DAVISS COUNTY --- (OWB)OWENSBORO ARPT [37.75, -87.17], 2.9 S BROWNWOOD MANOR [37.71, -87.06], 1.2 NNW BROWNWOOD MANOR [37.77, -87.05], 1.3 WNW OWENSBORO [37.78, -87.14]

01/13/13 02:10 CST	3K	Flash Flood (due to Heavy Rain)
01/13/13 05:00 CST	0	Source: Trained Spotter

Significant street flooding occurred in Owensboro. Water was at least two feet deep on a side street, with water entering yards. At the Owensboro airport, rainfall was nearly an inch per hour.

WEBSTER COUNTY --- PROVIDENCE [37.40, -87.77], BLACKFORD [37.45, -87.95], SEBREE [37.60, -87.53], SLAUGHTERS [37.48, -87.50]

01/13/13 04:00 CST	20K	Flash Flood (due to Heavy Rain)
01/13/13 12:00 CST	0	Source: Emergency Manager

Emergency management officials reported multiple state roads closed due to flooding. Two individuals were rescued from the top of a flooded vehicle.

CALLOWAY COUNTY --- 3.0 E MURRAY [36.62, -88.27], 3.0 W MURRAY [36.62, -88.37], 3.0 W HAZEL [36.50, -88.37], 3.0 E HAZEL [36.50, -88.27]

01/13/13 08:42 CST	0	Flash Flood (due to Heavy Rain)
01/13/13 09:55 CST	0	Source: Trained Spotter

A couple of secondary roads in the southern part of the county were impassable due to flooding.

During the afternoon, a supercell thunderstorm developed along a quasi-stationary front that extended from southwest to northeast along the Lower Ohio River Valley. Deep and strong southwesterly wind flow stretched from Texas to the Great Lakes region ahead of an expansive upper-level trough over the western and central states. Several weak disturbances tracked northeastward, contributing to the development of the isolated supercell. Strong low and mid-level wind fields supported the formation of the supercell, which spawned an isolated EF-2 tornado in Livingston County.

Later on during the night, more storms developed in a region of strong warm advection near a low level jet in excess of 50 knots. Marginal instability developed as a surface warm front lifted northward. This round of storms produced heavy rain and some flash flooding.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MUHENBERG COUNTY --- PARADISE [37.27, -86.98], 0.5 WSW PARADISE [37.27, -86.99], 0.5 S PARADISE [37.26, -86.98], 0.4 SSE PARADISE [37.27, -86.98]				
	01/15/13 07:00 CST		0	Flood (due to Heavy Rain)
	01/21/13 15:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Green River near Paradise. Some low-lying fields and woodlands near the river were underwater.				
UNION COUNTY --- 0.8 NNW UNIONTOWN [37.78, -87.94], 1.6 N UNIONTOWN [37.79, -87.93], 1.2 N UNIONTOWN [37.79, -87.93], 0.5 N UNIONTOWN [37.78, -87.93]				
	01/19/13 09:00 CST		0	Flood (due to Heavy Rain)
	01/25/13 22:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the Ohio River near Uniontown. Some low-lying fields and woodlands near the river were underwater.				
Minor flooding occurred along a couple of rivers in western Kentucky. The rivers rose above flood stage in response to the heavy rain event on the 12th and 13th, followed by some lighter wintry precipitation events during the middle of the month.				
(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHENBERG, (KY-Z022) TODD				
	01/15/13 14:00 CST		0	Winter Weather
	01/15/13 21:00 CST		0	
A period of wintry precipitation caused hazardous road conditions. Several hours of sleet and freezing rain left a light icy accumulation between one-eighth and one-quarter inch. A little snow was also reported in some areas. Roads were reported to be slick and icy. Along and southeast of a line from Central City to Hopkinsville, paved surfaces were mainly wet, but gravel roads and bridges were icy. The winter precipitation was caused by a surface low pressure system centered over Alabama and Georgia.				
(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHENBERG, (KY-Z022) TODD				
	01/25/13 02:00 CST		0	Winter Weather
	01/25/13 10:00 CST		0	
Areas of freezing rain created hazardous travel conditions. The highest accumulations of freezing rain were in the Pennyriple region of western Kentucky. Slightly less than one-quarter inch of ice was reported in Todd County. One-eighth inch of ice was reported in Muhlenberg County. Very icy conditions on Kentucky Highway 2551 in Muhlenberg County caused two state salt trucks to slide off the road into ditches. In Henderson and Hopkins Counties, multiple vehicle crashes and slide-offs occurred. Henderson County sheriff deputies worked 12 vehicle slide-offs and accidents. Some of the accidents involved overturned vehicles. There were no serious injuries. The Pennyriple Parkway and Western Kentucky Parkway were two of the major roads that were reported to be very slick. Several vehicles slid off the Western Kentucky Parkway in Hopkins County. Traffic was reduced to one lane on the Western Kentucky Parkway between Dawson Springs and the Pennyriple Parkway interchange. In the Paducah area, there were numerous reports of slips and falls on icy walkways. Most schools were closed for the day. Areas of freezing rain and sleet occurred north of a warm front as it moved north across Tennessee.				
(KY-Z017) CHRISTIAN, (KY-Z022) TODD				
	01/26/13 01:00 CST		0	Dense Fog
	01/26/13 06:00 CST		0	
Areas of dense fog reduced visibility to as low as 200 feet in the Hopkinsville area. The dense fog occurred beneath a strong high pressure ridge that extended from western Kentucky to the upper Mississippi Valley.				
(KY-Z009) CALLOWAY, (KY-Z012) TRIGG, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHENBERG, (KY-Z022) TODD				
	01/29/13 19:00 CST		10K	Strong Wind (MAX 39 kt)
	01/29/13 22:30 CST		0	
BALLARD COUNTY --- 3.0 S LA CENTER [37.03, -88.98]				
	01/29/13 22:35 CST		20K	Thunderstorm Wind (EG 52 kt)
	01/29/13 22:35 CST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Trees were blown down. There was slight structural damage.				
MCCRACKEN COUNTY --- 1.6 WSW CAMMELIA [37.01, -88.81]				
	01/29/13 22:47 CST		5K	Thunderstorm Wind (EG 56 kt)
	01/29/13 22:47 CST		0	Source: Emergency Manager
A barn roof was partially blown off on Highway 286 near the U.S. 62 intersection.				
GRAVES COUNTY --- LOWES [36.88, -88.77]				
	01/29/13 22:50 CST		10K	Thunderstorm Wind (EG 61 kt)
	01/29/13 22:50 CST		0	Source: Public
A well house was destroyed. Some shingles were blown off a house.				
GRAVES COUNTY --- 2.3 SE SEDALIA [36.63, -88.57], 3.3 NNW TRI CITY [36.63, -88.55]				
	01/29/13 23:28 CST		15K	Thunderstorm Wind (EG 56 kt)
	01/29/13 23:28 CST		0	Source: Public
A home sustained minor roof damage. A shed was destroyed. A barn roof was blown into a field.				
CALLOWAY COUNTY --- 0.6 SSE LYNN GROVE [36.59, -88.43], 1.5 NNW WISWELL [36.60, -88.39]				
	01/29/13 23:36 CST		25K	Tornado (EF0, L: 2.12 mi , W: 100 yd)
	01/29/13 23:39 CST		0	Source: NWS Storm Survey
Several outbuildings were damaged or destroyed. A dog kennel was picked up and destroyed. Several shallow-rooted trees were uprooted, and one tree was snapped. A carport was destroyed. There was minor roof damage to some homes, mostly shingles blown off. Porch columns on a home were shifted. There was light damage to a total of nine homes along State Route 94. Two car windows were broken by falling tree limbs. A power pole was snapped at the intersection of Highways 94 and 783. The average path width was 50 yards. Peak winds were estimated near 80 mph.				
MARSHALL COUNTY --- 3.0 SW BENTON [36.84, -88.39]				
	01/29/13 23:45 CST		5K	Thunderstorm Wind (EG 61 kt)
	01/29/13 23:45 CST		0	Source: Trained Spotter
Windows were blown out of a home.				
MARSHALL COUNTY --- 2.9 NE DOGTOWN [36.87, -88.28]				
	01/29/13 23:53 CST		30K	Thunderstorm Wind (EG 61 kt)
	01/29/13 23:53 CST		0	Source: NWS Storm Survey
Metal roofing from a mobile home along U.S. Highway 68 was peeled off and deposited on the highway. Underpinning was stripped off. The mobile home was shifted slightly on its foundation blocks, even though it was strapped down. Porch columns and railings were pushed out on a home across the highway. Cedar trees were blown over. An equipment shed and a storage building were shoved a couple of inches. A carport near the mobile home was tossed across Highway 68.				
CALLOWAY COUNTY --- MURRAY [36.62, -88.32]				
	01/29/13 23:55 CST		0	Hail (0.75 in)
	01/29/13 23:55 CST		0	Source: Trained Spotter
CALLOWAY COUNTY --- MURRAY [36.62, -88.32]				
	01/29/13 23:57 CST		4K	Thunderstorm Wind (EG 56 kt)
	01/29/13 23:57 CST		0	Source: Trained Spotter
The awning was torn off a home, and street signs were blown down along Highway 94.				
CALDWELL COUNTY --- 2.0 SE PRINCETON [37.10, -87.84]				
	01/30/13 00:30 CST		0	Thunderstorm Wind (MG 64 kt)
	01/30/13 00:30 CST		0	Source: Mesonet
A wind gust to 74 mph was measured at the mesonet site near Princeton.				
HOPKINS COUNTY --- WHITE PLAINS [37.18, -87.38]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/30/13 01:27 CST		2K	Thunderstorm Wind (EG 52 kt)
	01/30/13 01:27 CST		0	Source: Trained Spotter

Medium size tree limbs were blown down. A trained spotter estimated winds gusted to 60 mph.

CHRISTIAN COUNTY --- 0.5 E HERNDON [36.73, -87.56], 4.0 E HERNDON [36.73, -87.50]

01/30/13 01:34 CST	0.20M	Thunderstorm Wind (EG 91 kt)
01/30/13 01:38 CST	0	Source: NWS Storm Survey

Peak winds were estimated near 105 mph. A 300-yard wide swath of damage included an empty grain bin that was blown approximately 150 feet. There was also a collapsed machine shed. A repair shop was unroofed, and several other barns and shops were partially unroofed. Dozens of trees were uprooted.

CHRISTIAN COUNTY --- 4.0 S HERNDON [36.67, -87.57], 9.0 E HERNDON [36.73, -87.41]

01/30/13 01:35 CST	0.25M	Thunderstorm Wind (EG 87 kt)
01/30/13 01:39 CST	0	Source: NWS Storm Survey

Several barns were levelled or heavily damaged. Center pivot irrigation equipment was overturned. Several homes received shingle and siding damage. Fifteen power poles were snapped along U.S. Highway 41A. Dozens of trees were uprooted. A semi-trailer rig was overturned along Interstate 24 near mile marker 89. The entire community of Pembroke was without power. There was considerable debris along Highway 115. The swath of damage from this downburst averaged one mile wide.

CHRISTIAN COUNTY --- 1.8 WNW GARRETSBURG [36.68, -87.56], 3.0 SE HERNDON [36.70, -87.53]

01/30/13 01:36 CST	0.15M	Tornado (EF2, L: 2.06 mi , W: 200 yd)
01/30/13 01:38 CST	0	Source: NWS Storm Survey

The peak winds in the tornado were estimated near 120 mph. The average damage path width was about 150 yards. Three homes sustained major damage. A two-story Amish home had its entire roof system removed, and a window was blown out. A block wall milk barn was levelled except for part of the north wall. A machine shop was unroofed, and a barn was levelled. Numerous trees were snapped or uprooted. Trained spotters observed light debris in the air near Herndon.

CHRISTIAN COUNTY --- 8.0 S HOPKINSVILLE [36.73, -87.48], 1.2 NNW PEMBROKE [36.80, -87.36]

01/30/13 01:39 CST	0.25M	Tornado (EF1, L: 7.92 mi , W: 225 yd)
01/30/13 01:46 CST	0	Source: NWS Storm Survey

The tornado touched down along U.S. Highway 41A and travelled northeast to U.S. Highway 41. Hundreds of trees were snapped or uprooted. One grain bin was blown 150 feet. Several barns or sheds were levelled. At least two dozen power poles were broken along Highway 1027 and U.S. Highway 41. Several homes received mainly minor roof damage. The tornado had estimated peak winds of 105 mph. The average path width was 175 yards.

CHRISTIAN COUNTY --- 4.0 E HOPKINSVILLE [36.85, -87.41], 8.0 E HOPKINSVILLE [36.85, -87.34]

01/30/13 01:41 CST	50K	Thunderstorm Wind (EG 83 kt)
01/30/13 01:46 CST	0	Source: NWS Storm Survey

A couple of barns and other farm structures were levelled or heavily damaged. A silo and three greenhouses were blown down. Windows were blown out of a building. Dozens of trees were uprooted. The damage swath averaged 300 yards wide.

TODD COUNTY --- 3.0 NW ALLEGRE [36.96, -87.26], TYEWHOPPETY [37.03, -87.13]

01/30/13 01:52 CST	0.30M	Thunderstorm Wind (EG 96 kt)
01/30/13 02:05 CST	0	Source: NWS Storm Survey

The path of damage averaged about one-third mile wide. The downburst damage exited the northeast corner of Todd County into Muhlenberg County near Lake Malone State Park. A few thousand trees were uprooted by winds estimated near 110 mph. Numerous barns and other sheds were levelled or heavily damaged. Several homes and other buildings had roofs, including decking, partially removed. A couple of homes received damage to walls of attached garages. Many other homes received minor damage, including loss of shingles and siding.

MUHLENBERG COUNTY --- 2.0 SE ROSEWOOD [37.06, -87.05], PENROD [37.12, -87.00]

01/30/13 02:00 CST	0.25M	Tornado (EF2, L: 5.14 mi , W: 325 yd)
01/30/13 02:06 CST	0	Source: NWS Storm Survey

Peak winds were estimated near 120 mph. The average path width was 275 yards. Large portions of the roof structure were removed from one home, including rafters. Several other homes lost varying numbers of shingles. Siding was damaged on several homes, along with a few destroyed porches. Two mobile homes were completely destroyed, including one mobile home that was overturned. Hundreds of trees were snapped or uprooted. Power outages were reported.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MUHLENBERG COUNTY --- 1.6 E ROSEWOOD [37.08, -87.05], 1.0 NE PENROD [37.13, -86.99]				
	01/30/13 02:05 CST		50K	Thunderstorm Wind (EG 96 kt)
	01/30/13 02:11 CST		0	Source: NWS Storm Survey
The downburst damage path entered Muhlenberg County from the northeast corner of Todd County. The path of damage averaged about one-third mile wide. A few thousand trees were uprooted by winds estimated near 110 mph. Some barns and other sheds were levelled or heavily damaged. Several homes and other buildings had roofs, including decking, partially removed. A couple of homes received damage to walls of attached garages. Many other homes received minor damage, including loss of shingles and siding.				
TODD COUNTY --- GUTHRIE [36.65, -87.17], 2.7 ENE HERMAN [36.74, -87.12]				
	01/30/13 02:25 CST		10K	Thunderstorm Wind (EG 52 kt)
	01/30/13 02:30 CST		0	Source: Law Enforcement
Numerous trees were down across the county.				
A line of thunderstorms intensified as it moved east from Missouri. The storms increased as they moved into slightly more unstable air associated with a strengthening low level jet. The storms were aided by the approach of a strong upper level trough. Despite weak instability, winds of 90 knots in the lowest 3 kilometers coupled with extreme shear values resulted in damaging winds and isolated tornadoes with the strongest storms. Ahead of the thunderstorms, strong southerly gradient winds gusted up to 45 mph, mainly along and southeast of a line from Owensboro to Murray.				
MISSOURI, Southeast				
(MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	01/01/13 00:00 CST		0	Drought
	01/12/13 06:00 CST		0	
The drought which began in May of 2012 officially ended across the remainder of southern Illinois. Water supplies returned to normal.				
SCOTT COUNTY --- DIEHLSTADT [36.97, -89.43]				
	01/12/13 07:00 CST		0	Heavy Rain
	01/13/13 07:00 CST		0	Source: Trained Spotter
The 24-hour rainfall total was 3.43 inches.				
CARTER COUNTY --- ELLSINORE [36.93, -90.75]				
	01/12/13 09:00 CST		0	Heavy Rain
	01/13/13 09:00 CST		0	Source: Trained Spotter
The 24-hour rainfall total was 4.00 inches.				
BUTLER COUNTY --- POPLAR BLUFF [36.75, -90.40]				
	01/12/13 20:17 CST		0	Heavy Rain
	01/13/13 03:00 CST		0	Source: Emergency Manager
Water was reported over a few roads in the city.				
CAPE GIRARDEAU COUNTY --- FRUITLAND [37.45, -89.65], JACKSON [37.38, -89.67]				
	01/12/13 21:00 CST		0	Heavy Rain
	01/12/13 22:30 CST		0	Source: Trained Spotter
Flood-prone Hubble Creek in Jackson was out of its banks. Water was over some secondary roads and side streets.				
STODDARD COUNTY --- BERNIE [36.68, -89.97], 0.9 ENE BERNIE [36.68, -89.95], 1.8 SE BERNIE [36.66, -89.95], 1.8 SSW BERNIE [36.66, -89.98]				
	01/13/13 01:00 CST		3K	Flash Flood (due to Heavy Rain)
	01/13/13 06:00 CST		0	Source: Trained Spotter
A trained spotter reported street flooding and three feet of water in a parking lot.				

Storm Data and Unusual Weather Phenomena - January 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BOLLINGER COUNTY --- 2.7 ENE HAHN [37.24, -90.03], 2.4 ENE HAHN [37.23, -90.03], 2.6 ENE HAHN [37.23, -90.02], 2.9 ENE HAHN [37.24, -90.02]				
	01/13/13 06:00 CST		0	Flood (due to Heavy Rain)
	01/13/13 10:00 CST		0	Source: Department of Highways
Flooding of Cane Creek prompted the closure of Highway PP.				
CARTER COUNTY --- GRANDIN [36.83, -90.83], ELLSINORE [36.93, -90.75], 2.7 SSE ELLSINORE [36.89, -90.73], 3.9 ENE GRANDIN [36.85, -90.76]				
	01/13/13 06:00 CST		0	Flood (due to Heavy Rain)
	01/13/13 10:00 CST		0	Source: Department of Highways
Flooding of Ten Mile Creek closed Route K.				
SCOTT COUNTY --- CHAFFEE [37.18, -89.67], NEW HAMBURG [37.13, -89.60], 1.5 NE NEW HAMBURG [37.14, -89.58], 2.8 SE ROCKVIEW [37.18, -89.61]				
	01/13/13 06:00 CST		0	Flood (due to Heavy Rain)
	01/13/13 10:00 CST		0	Source: Department of Highways
Flooding of Caney Creek resulted in the closure of Route A.				
WAYNE COUNTY --- 2.1 ENE SILVA [37.18, -90.49], 1.2 NE SILVA [37.18, -90.50], 1.6 ESE SILVA [37.16, -90.50], 2.3 E SILVA [37.17, -90.48]				
	01/13/13 07:00 CST		0	Flood (due to Heavy Rain)
	01/14/13 17:00 CST		0	Source: River/Stream Gage
Minor flooding occurred along the St. Francis River near Patterson. Some low-lying fields and woodlands near the river were underwater.				
Numerous showers and thunderstorms moved quickly northeast across southeast Missouri. The storms were located in a region of strong warm advection near a low level jet in excess of 50 knots. Marginal instability developed as a surface warm front lifted northward. These storms produced heavy rain.				
(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU				
	01/13/13 10:00 CST		0	Winter Weather
	01/13/13 15:00 CST		0	
Sleet and freezing rain caused some hazardous travel conditions. North of a line from Cape Girardeau to Marble Hill, about one-eighth inch of icing occurred, mainly on elevated objects. Some slick spots developed on roads, especially bridges and overpasses. The sleet and freezing rain occurred in the wake of a strong cold front that stretched from Ohio to the central Gulf Coast. Rain changed to mixed precipitation after the passage of the front.				
(MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	01/15/13 13:00 CST		0	Winter Weather
	01/15/13 18:00 CST		0	
A mixture of sleet and snow caused hazardous road conditions. About one-half inch of snow and sleet was reported in New Madrid and Mississippi Counties. The winter precipitation was caused by a surface low pressure system centered over Alabama and Georgia.				
(MO-Z087) CAPE GIRARDEAU, (MO-Z111) SCOTT				
	01/29/13 18:00 CST		2K	Strong Wind (MAX 39 kt)
	01/29/13 22:00 CST		0	
BUTLER COUNTY --- 4.3 SSW HENDRICKSON [36.84, -90.50]				
	01/29/13 20:00 CST		0	Heavy Rain
	01/29/13 20:59 CST		0	Source: Trained Spotter
Heavy rainfall of 1.11 inches in one hour was reported.				
CARTER COUNTY --- 4.1 ENE CHILTON [36.95, -90.85]				
	01/29/13 20:00 CST		50K	Thunderstorm Wind (EG 65 kt)
	01/29/13 20:00 CST		0	Source: Trained Spotter
A home and a shed was damaged along Highway 21. The roof of one home was blown into the road, and the shed was blown away. A carport was blown into some nearby trees.				

Storm Data and Unusual Weather Phenomena - January 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
RIPLEY COUNTY --- 3.4 WNW FLATWOODS [36.69, -90.76], 3.2 WNW FLATWOODS [36.69, -90.75]				
	01/29/13 20:14 CST		0.10M	Tornado (EF1, L: 0.27 mi , W: 100 yd)
	01/29/13 20:16 CST		0	Source: Emergency Manager
The tornado touched down along County Road K-1. Two houses sustained moderate roof damage, including partial loss of rafters. A porch was lifted over a house, and a small boat was blown approximately 150 feet. One barn was heavily damaged. Approximately 40 large trees were snapped or uprooted. The average path width was 100 yards. Peak winds were estimated near 100 mph.				
BUTLER COUNTY --- 1.3 ESE JUNLAND [36.76, -90.26], 1.0 NNE FISK [36.79, -90.22]				
	01/29/13 20:45 CST		60K	Tornado (EF2, L: 3.39 mi , W: 100 yd)
	01/29/13 20:47 CST		0	Source: NWS Storm Survey
A small older, poorly constructed home was leveled and blown a few feet to hundreds of yards. A mobile home was blown 60 feet to several hundred yards. A few trees or tree limbs were snapped and a couple small structures were blown over. Peak winds were 130 mph with an average damage path width of 80 yards.				
BUTLER COUNTY --- POPLAR BLUFF [36.75, -90.40], 1.8 ENE POPLAR BLUFF [36.76, -90.37]				
	01/29/13 20:45 CST		60K	Thunderstorm Wind (EG 65 kt)
	01/29/13 20:45 CST		0	Source: Trained Spotter
A roof was blown off a home just east of Poplar Bluff. The entire end of a shed was blown down at a local lumber company in the city. Near Highway WW in Poplar Bluff, a roof was blown into a power line. Elsewhere in Poplar Bluff, a travel trailer was blown into the roadway. Two mobile homes were damaged and blown off their foundations.				
WAYNE COUNTY --- WAPPAPELLO [36.93, -90.28], 1.0 NNW LAKE WAPPAPELLO [36.96, -90.33]				
	01/29/13 20:45 CST		20K	Thunderstorm Wind (EG 56 kt)
	01/29/13 20:45 CST		0	Source: Emergency Manager
Numerous trees were blown down near Lake Wappapello, including some that landed across roadways.				
STODDARD COUNTY --- PAXICO [36.95, -90.17]				
	01/29/13 20:48 CST		20K	Thunderstorm Wind (EG 52 kt)
	01/29/13 20:48 CST		0	Source: Broadcast Media
A tree fell on a house. Rafters were broken.				
BUTLER COUNTY --- BROSELEY [36.68, -90.25]				
	01/29/13 20:58 CST		30K	Thunderstorm Wind (EG 70 kt)
	01/29/13 20:58 CST		0	Source: Newspaper
A mobile home was blown away, overturned, and destroyed. The mobile home was evacuated shortly before the storm hit.				
CAPE GIRARDEAU COUNTY --- 1.5 SW DELTA [37.18, -89.77], 1.0 W BLOMEYER [37.23, -89.69]				
	01/29/13 21:13 CST		0.25M	Tornado (EF1, L: 5.45 mi , W: 100 yd)
	01/29/13 21:19 CST		0	Source: NWS Storm Survey
Lots of shingles were blown off homes. One home sustained major damage, with pieces of a neighbor's roof embedded into the sides of the house. The roof was ripped off a convenience store. A semi and trailer were overturned along Highway 25. A total of ten buildings were damaged, including five businesses, two residences, one church, and two barns. Most of the damage was minor roof damage, except for the one home and one business. Trees were blown down, along with at least one power pole. All of the damaged structures were in the community of Delta. Peak winds were estimated near 100 mph. The average path width was 75 yards.				
CAPE GIRARDEAU COUNTY --- 4.8 SW JACKSON [37.33, -89.73], 4.8 SE JACKSON [37.33, -89.61]				
	01/29/13 21:13 CST		80K	Tornado (EF1, L: 6.79 mi , W: 100 yd)
	01/29/13 21:20 CST		0	Source: NWS Storm Survey
This EF-1 tornado tracked south of Jackson. The average path width was 50 yards. Peak winds were estimated near 95 mph. Trees were blown down, shingles were blown off several roofs, including a church. Outbuildings were destroyed. Two barns were partially destroyed, with their second floors removed. Much of the damage was along County Road 316.				
STODDARD COUNTY --- 8.0 E DEXTER [36.80, -89.81]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/29/13 21:16 CST		0	Funnel Cloud
	01/29/13 21:16 CST		0	Source: Law Enforcement

A funnel cloud was reported by an off-duty deputy sheriff.

SCOTT COUNTY --- 1.5 NW CHAFFEE [37.20, -89.69], 1.5 NNE CHAFFEE [37.20, -89.66]				
	01/29/13 21:20 CST		0.10M	Thunderstorm Wind (EG 104 kt)
	01/29/13 21:22 CST		0	Source: NWS Storm Survey

This powerful microburst began in a field northwest of Chaffee, where a large storage barn was destroyed. Just to the east of the field, the microburst caused 48 cars of a 112-car train to derail. The train was carrying stacked semi shipping containers containing auto parts. About 800 feet of railroad track was destroyed. The damage path width was only about 500 feet. The damage path length was about 1.6 miles. Peak winds were estimated near 120 mph.

CAPE GIRARDEAU COUNTY --- 4.5 ESE JACKSON [37.35, -89.60]				
	01/29/13 21:26 CST		0	Funnel Cloud
	01/29/13 21:26 CST		0	Source: Trained Spotter

A funnel cloud was reported near exit 99 along Interstate 55.

NEW MADRID COUNTY --- PARMA [36.62, -89.82]				
	01/29/13 21:44 CST		8K	Thunderstorm Wind (EG 52 kt)
	01/29/13 21:44 CST		0	Source: Law Enforcement

Power lines were down throughout the community of Parma.

SCOTT COUNTY --- SIKESTON [36.88, -89.58]				
	01/29/13 21:49 CST		0	Thunderstorm Wind (EG 52 kt)
	01/29/13 21:49 CST		0	Source: Trained Spotter

A trained spotter estimated a wind gust to 60 mph. Power outages were reported.

NEW MADRID COUNTY --- LILBOURN [36.60, -89.62]				
	01/29/13 21:55 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	01/29/13 21:55 CST		0	Source: Emergency Manager

A microburst moved through the heart of the community of Lilbourn. An unoccupied mobile home was blown over. The roof was blown off a nearby business. A large loading dock door was damaged. Shingles were blown off houses, mainly on the east side of town. Outbuildings were moved around from west to east.

MISSISSIPPI COUNTY --- 1.6 SW CHARLESTON [36.90, -89.35], 1.5 W WYATT [36.92, -89.25]				
	01/29/13 22:05 CST		80K	Thunderstorm Wind (EG 65 kt)
	01/29/13 22:05 CST		0	Source: NWS Employee

At exit 10 along Interstate 57, an irrigation rig was turned over. A barn was destroyed and strewn across Highway 60 between Charleston and Wyatt.

MISSISSIPPI COUNTY --- EAST PRAIRIE [36.78, -89.38]				
	01/29/13 22:05 CST		5K	Thunderstorm Wind (EG 52 kt)
	01/29/13 22:05 CST		0	Source: Public

A large tree was uprooted, causing minor damage to a nearby home. A hole was ripped in the window screen.

A line of thunderstorms intensified as it moved east across southeast Missouri. The storms increased as they moved into slightly more unstable air associated with a strengthening low level jet. The storms were aided by the approach of a strong upper level trough. Despite weak instability, winds of 90 knots in the lowest 3 kilometers coupled with extreme shear values resulted in damaging winds and isolated tornadoes with the strongest storms. Ahead of the thunderstorms, strong southerly gradient winds gusted up to 45 mph, mainly in the Cape Girardeau to Sikeston area.